

FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

503.30414V22

SERIAL NO.

09/766596

APPLICANT  
KATO, et al.

FILING DATE  
January 23, 2001

GROUP  
3749

10945 U.S. PTO

09/766596

01/23/01

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PAW	3 6 5 2 4 4 4	2-72	Lester, et al.			
PAW	3 9 8 1 7 9 1	9-76	Rosvold			
PAW	4 2 2 6 8 9 7	10-80	Coleman			
PAW	4 3 1 1 4 2 7	1-82	Coad, et al.			
PAW	4 3 1 3 8 1 5	2-82	Graves, Jr. et al.			
PAW	4 4 4 9 8 8 5	5-84	Hertel, et al.			
PAW	4 4 5 7 6 6 1	7-84	Flint, et al.			
PAW	4 5 3 4 3 1 4	8-85	Ackley			
PAW	4 5 6 3 2 4 0	1-86	Shibata, et al.			
PAW	4 6 3 4 3 3 1	1-87	Hertel			
PAW	4 7 0 5 9 5 1	11-87	Layman, et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
PAW	6 2 8 9 8 8 1	4-87	Japan			X
PAW	6 2 2 0 7 8 6 6	9-87	Japan			X
PAW	1 3 1 9 7 0	2-89	Japan			X
PAW	1 3 1 9 7 1	2-89	Japan			X
PAW	6 3 6 5 8 2	1-89	Japan			X
PAW	1 1 3 5 0 1 5	5-89	Japan			X

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

PAW	R.P.H. Chang, "Multipurpose plasma reactor for materials research and processing", J. Vac. Sci. Technol., Vol. 14, No. 1, Jan./Feb. 1977, pages 278-280.
PAW	Semiconductor Equipment Association of Japan, "Terminological Dictionary of Semiconductor Equipment", front, table, page 183, back, Nov. 20, 1987.
PAW	Semiconductor Equipment Association of Japan, "Semiconductor News", Vol. 4, pp. 38-43, April 10, 1987 (w/ translation).

EXAMINER

P. Wilson

DATE CONSIDERED

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PAW	4 7 1 5 7 6 4	12-87	Hutchinson			
PAW	4 8 5 1 1 0 1	7-89	Hutchinson			
PAW	4 8 3 6 7 3 3	6-89	Hertel, et al.			
PAW	4 8 3 6 9 0 5	6-89	Davis, et al.			
PAW	4 8 9 5 1 0 7	1-90	Yano, et al.			
PAW	4 9 0 2 9 3 4	2-90	Miyamura, et al.			
PAW	4 9 0 3 9 3 7	2-90	Jakuniec, et al.			
PAW	4 9 0 9 6 9 5	3-90	Hurwitt, et al.			
PAW	4 9 1 1 5 9 7	3-90	Maydan, et al.			
PAW	4 9 1 5 5 6 4	4-90	Erer, et al.			
PAW	4 9 1 7 5 5 6	4-90	Stark, et al.			

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
PAW	2 6 5 2 5 2	3-90	Japan			X	
PAW	6 4 1 2 0 3 7	1-89	Japan			X	
PAW	2 6 1 0 6 4	3-90	Japan				X
PAW	1 3 1 0 5 5 3	12-89	Japan				X
PAW	1 2 5 1 7 3 4	10-89	Japan				X
PAW	6 2 4 4 5 7 1	2-87	Japan				X

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PAW	5 0 0 7 9 8 1	4-91	Kawasaki, et al.			
PAW	5 2 9 2 3 9 3	3-94	Maydan, et al.			
PAW	5 4 5 2 1 6 6	9-95	Aylwin, et al.			
PAW	5 5 0 4 0 3 3	4-96	Bajor, et al.			
PAW	5 5 0 4 3 4 7	4-96	Jovanovic, et al.			
PAW	5 5 5 6 7 1 4	9-96	Fukuyama, et al.			
PAW	5 6 5 1 8 5 8	7-97	Lin			
PAW	5 6 7 5 4 6 1	10-97	Aylwin, et al.			
PAW	4 3 1 3 7 8 3	2-82	Davies, et al.			
PAW	4 3 1 8 7 6 7	3-82	Hijikata, et al.			
PAW	4 9 6 9 7 9 0	11-90	Petz, et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
PAW 6 2 5 0 4 6 3	3-87	Japan			
PAW 2 1 0 6 0 3 7	4-90	Japan			X
PAW 5 7 2 9 5 7 7	2-82	Japan			X
PAW 6 3 1 5 3 2 7 0	6-88	Japan			x

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PAW	4 9 2 4 8 9 0	5-90	Giles, et al.	134	902	
PAW	4 9 3 6 3 2 9	6-90	Michael, et al.	134	902	
PAW	5 0 1 4 2 1 7	5-91	Savage	364	550	
PAW	5 0 0 7 9 8 1	4-91	Kawasaki, et al.			
PAW	4 1 3 8 3 0 6	2-79	Niwa	156	345	
PAW	4 5 7 6 6 9 8	3-86	Gallagher, et al.	204	192	
PAW	5 0 1 4 2 1 7	5-91	Savage	364	498	
PAW	5 3 5 1 4 1 5	10-94	Brooks, et al.	34	389	
PAW	4 6 4 3 6 2 9	2-87	Takahashi, et al.	414	331	
PAW	4 8 2 4 3 0 9	4-89	Kakehi, et al.	414	217	
PAW	4 9 5 1 6 0 1	8-90	Maydan, et al.	414	217X	

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
PAW 2 0 3 8 1 3 3 8	5-90	Europe			
PAW 6 4 1 2 0 3 7	1-89	Japan			
PAW 4 3 0 5 4 9	4-92	Japan			
PAW 8 7 0 7 3 0 9	5-87	PCT Int'l Appl.			
PAW 2 9 4 6 4 7	4-90	Japan			
PAW 6 0 2 4 6 6 3 5	12-85	Japan			

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PAW	5 5 0 9 7 7 1	4-96	Hiroki	414	217	
PAW	5 4 6 2 3 9 7	10-95	Iwabuchi	414	222	
PAW	5 6 8 5 6 8 4	11-97	Kato, et al.	414	217	
PAW	4 9 2 3 5 8 4	5-90	Bramhall, Jr., et al.			
PAW	5 4 3 6 8 4 8	7-95	Nishida, et al.			

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
PAW		1	2	9	8	1	8	0	12-89	Japan	<del>_____</del>			
PAW	2	0	2	4	6	4	5	3	4-87	Europe	<del>_____</del>			
PAW			2	6	5	2	5	2	3-90	Japan	<del>_____</del>			

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## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Abstract	
						Yes	No
PAN	AM	63-133521	06/06/88	Japan		x	
	AN						
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	
	AV	
	AW	
	AX	
	AY	
	AZ	
Examiner		Date Considered
P. Wilson		12/17/01